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**Sunnyvale, CA 94088-3642(US)**

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(54) **Global positioning system course acquisition code receiver.**

(57) Two receiver channels each driven by a common local oscillator signal are employed. The signal developed by the first receiver channel is used to drive in phase (I) and quadrature (Q) counters of a Costas-loop, which phase-locks to the signal. The signal developed by the second receiver channel is used to drive another pair of in phase (I) and quadrature (Q) counters, which develop signals from which heading information is calculated.

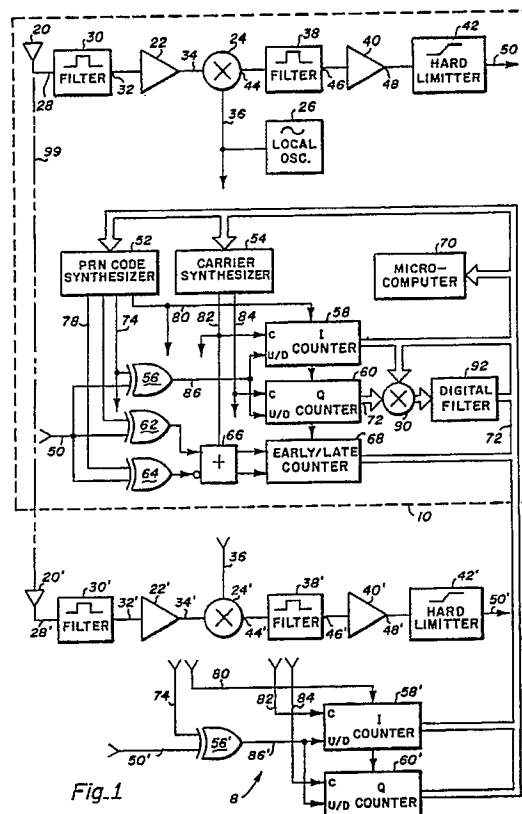


Fig. 1

EP 0 336 418 A3



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## EUROPEAN SEARCH REPORT

Application Number

EP 89 10 6067

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
D,Y	EP-A-0 166 911 (TRIMBLE NAVIGATION) * Page 9, line 15 - page 16, line 36; figure 1 * - - -	1-10	G 01 S 5/14 G 01 S 3/46
Y	EP-A-0 115 151 (SPERRY CORP.) * Page 3, line 2 - page 6, line 15; figure 1 * - - -	1-10	H 03 L 7/00 H 04 B 1/66
A	EP-A-0 222 354 (SEL) * Column 2, line 1 - column 6, line 49; figure 1 * - - -	1-10	
A	EP-A-0 079 689 (SPERRY) * Abstract; figures 1-4 * - - - - -	1-10	
			TECHNICAL FIELDS SEARCHED (Int. Cl.5)
			G 01 S
The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of search 20 February 91	Examiner HAFFNER R.D.R.
<div>CATEGORY OF CITED DOCUMENTS</div> <div>E : earlier patent document, but published on, or after the filing date</div> <div>D : document cited in the application</div> <div>L : document cited for other reasons</div> <div>&amp; : member of the same patent family, corresponding document</div> <div>X : particularly relevant if taken alone</div> <div>Y : particularly relevant if combined with another document of the same category</div> <div>A : technological background</div> <div>O : non-written disclosure</div> <div>P : intermediate document</div> <div>T : theory or principle underlying the invention</div>			